

FIG. 1

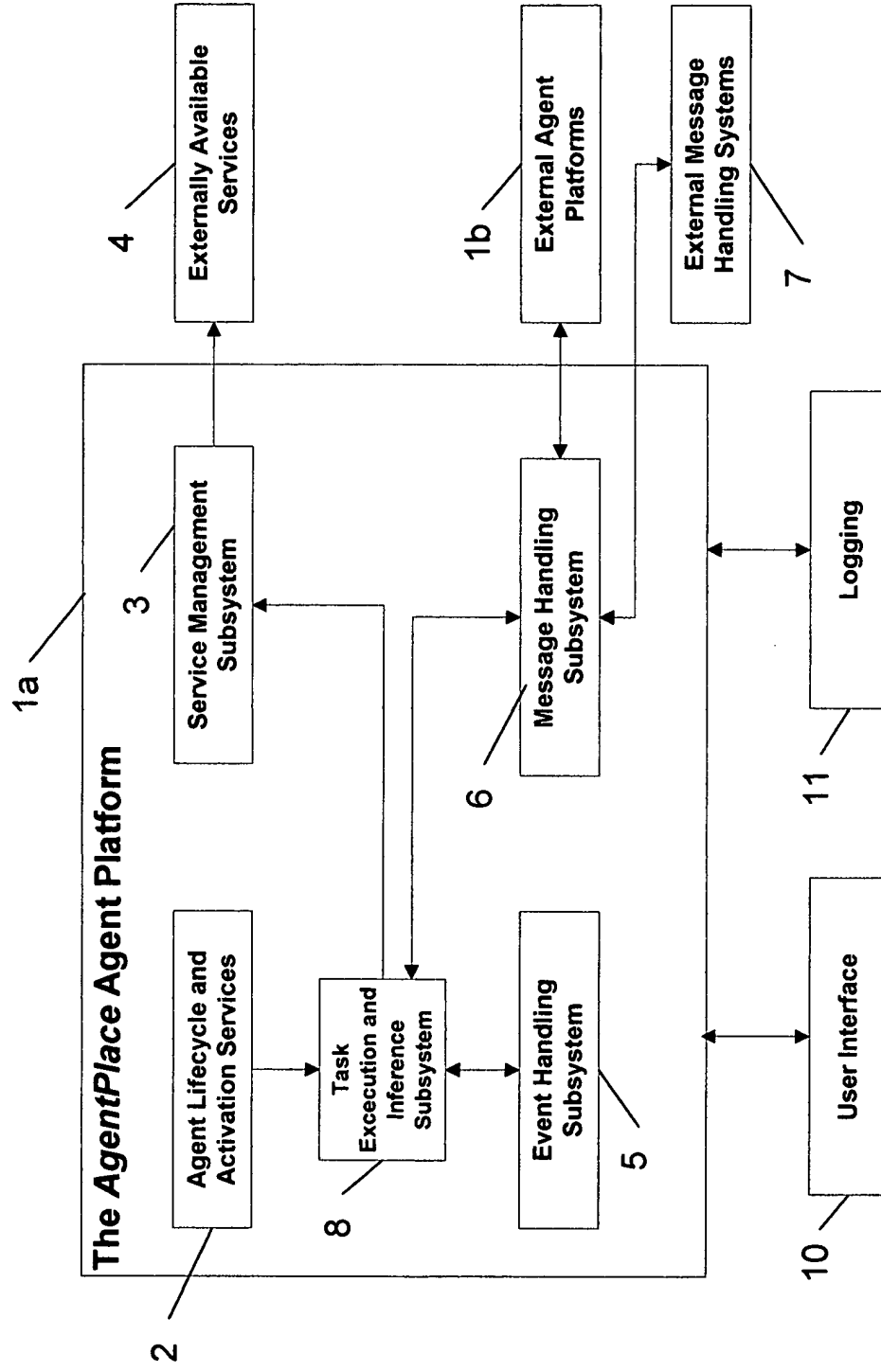


FIG. 2

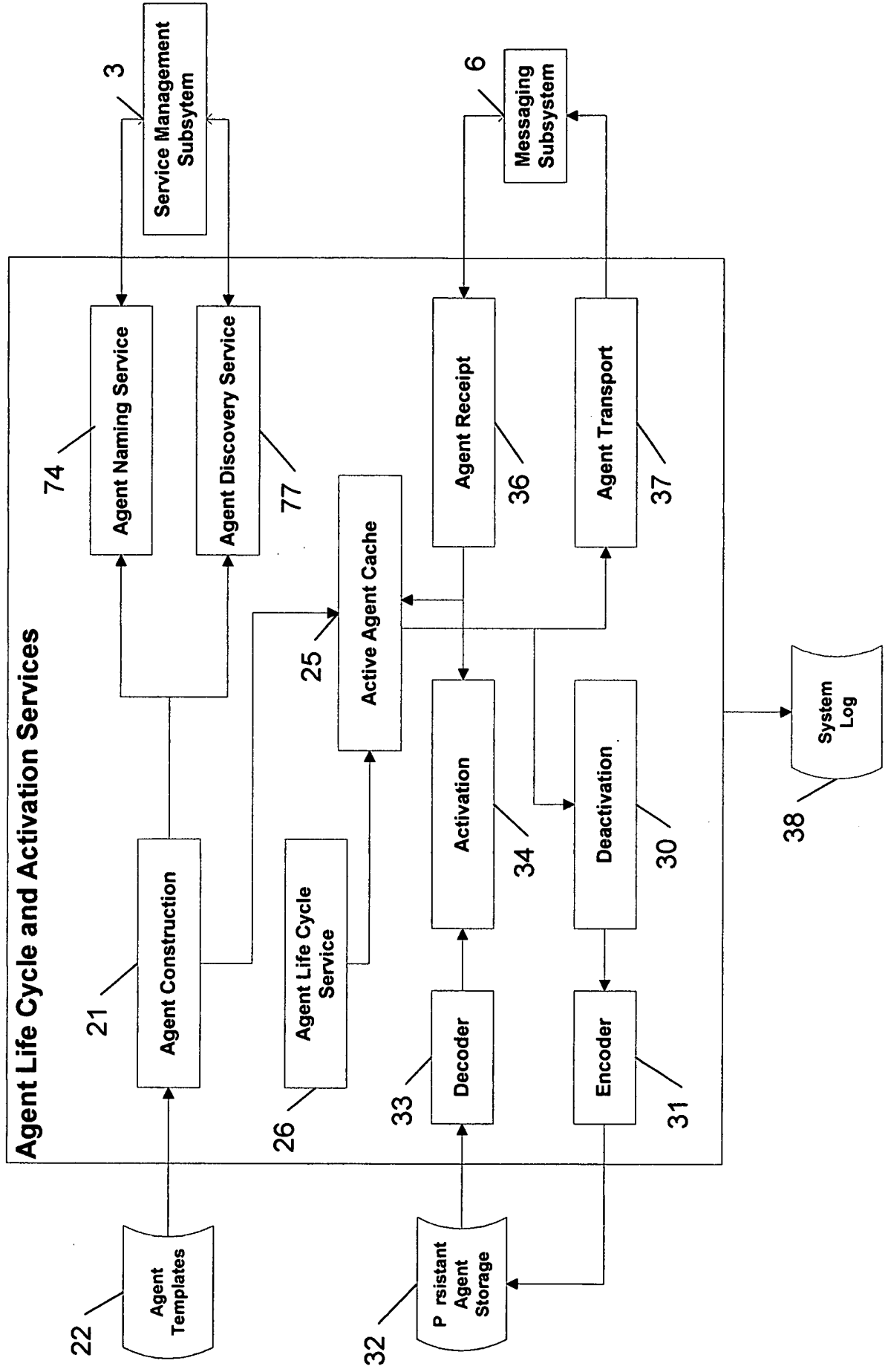


FIG. 3

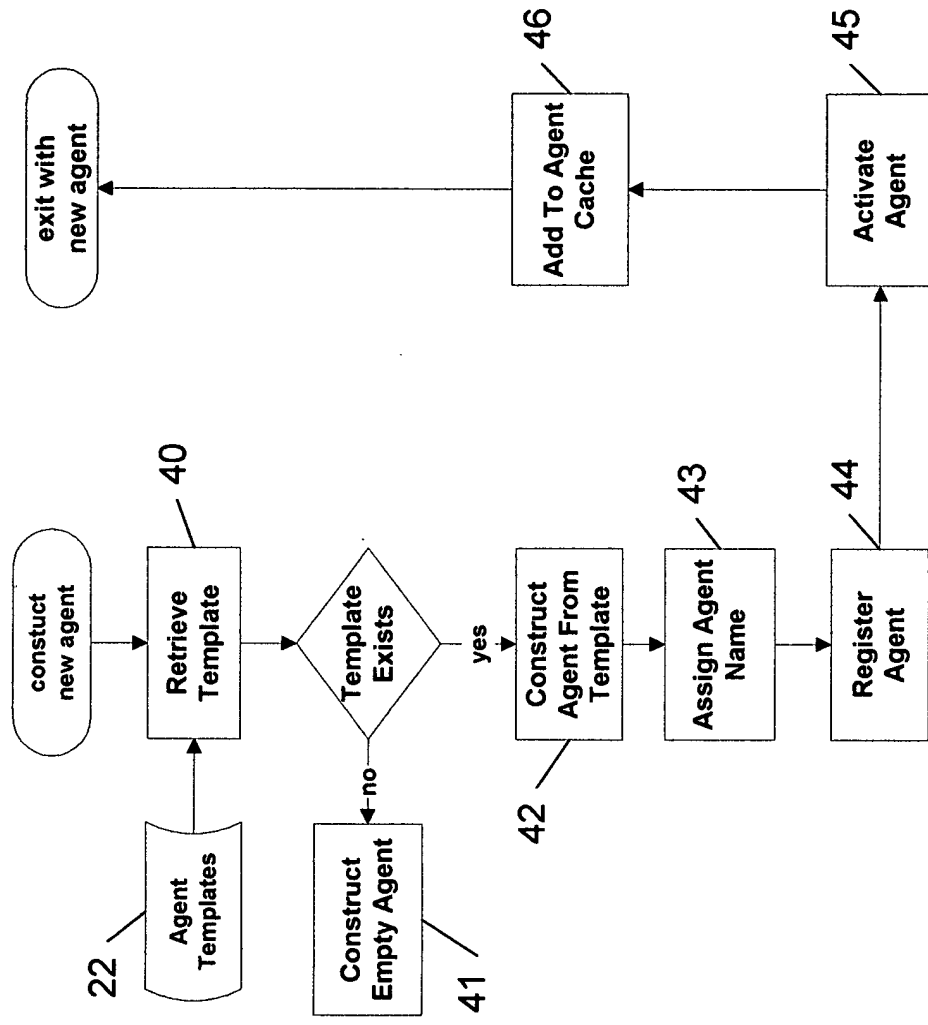


FIG. 4

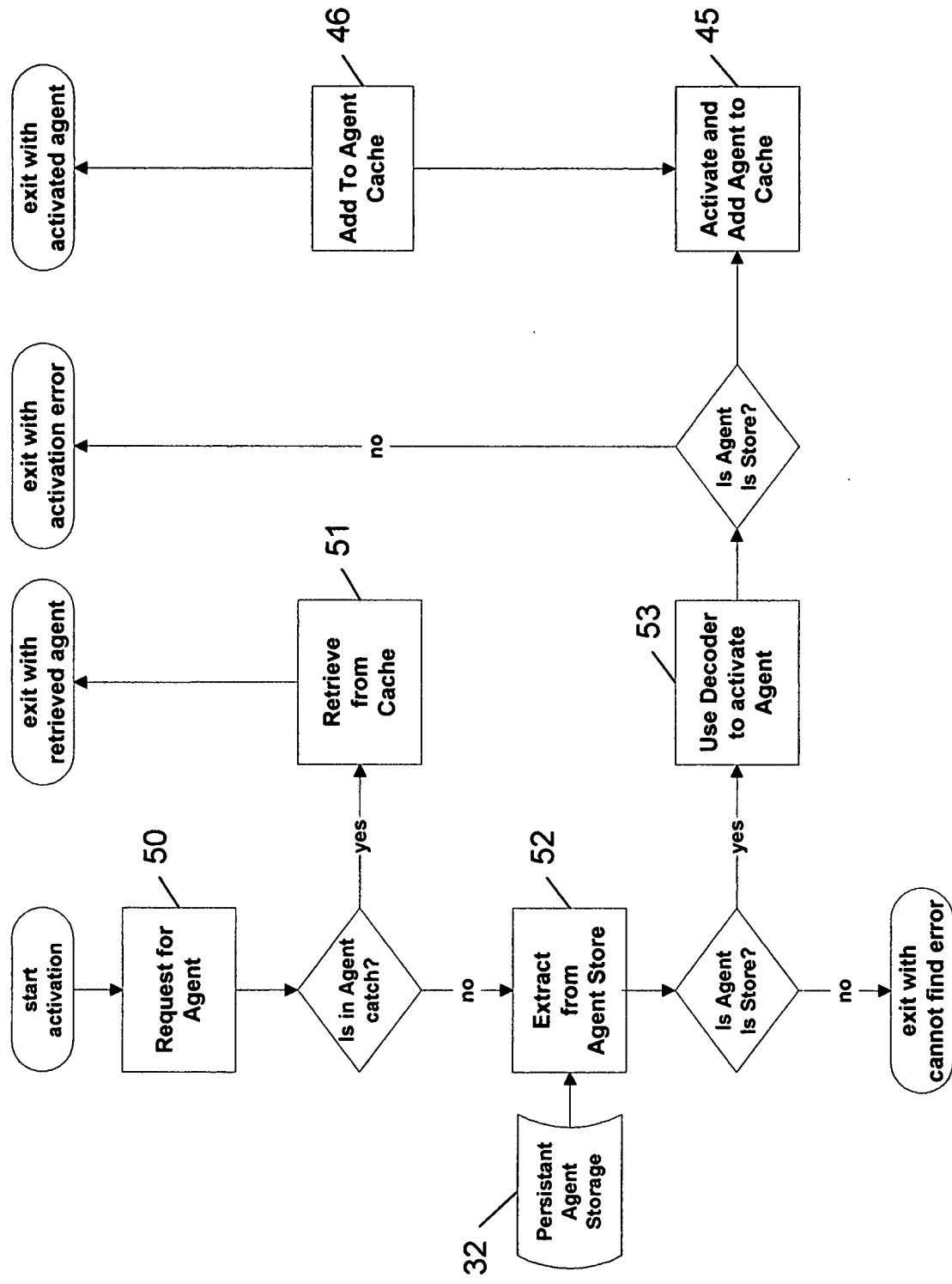


FIG. 5

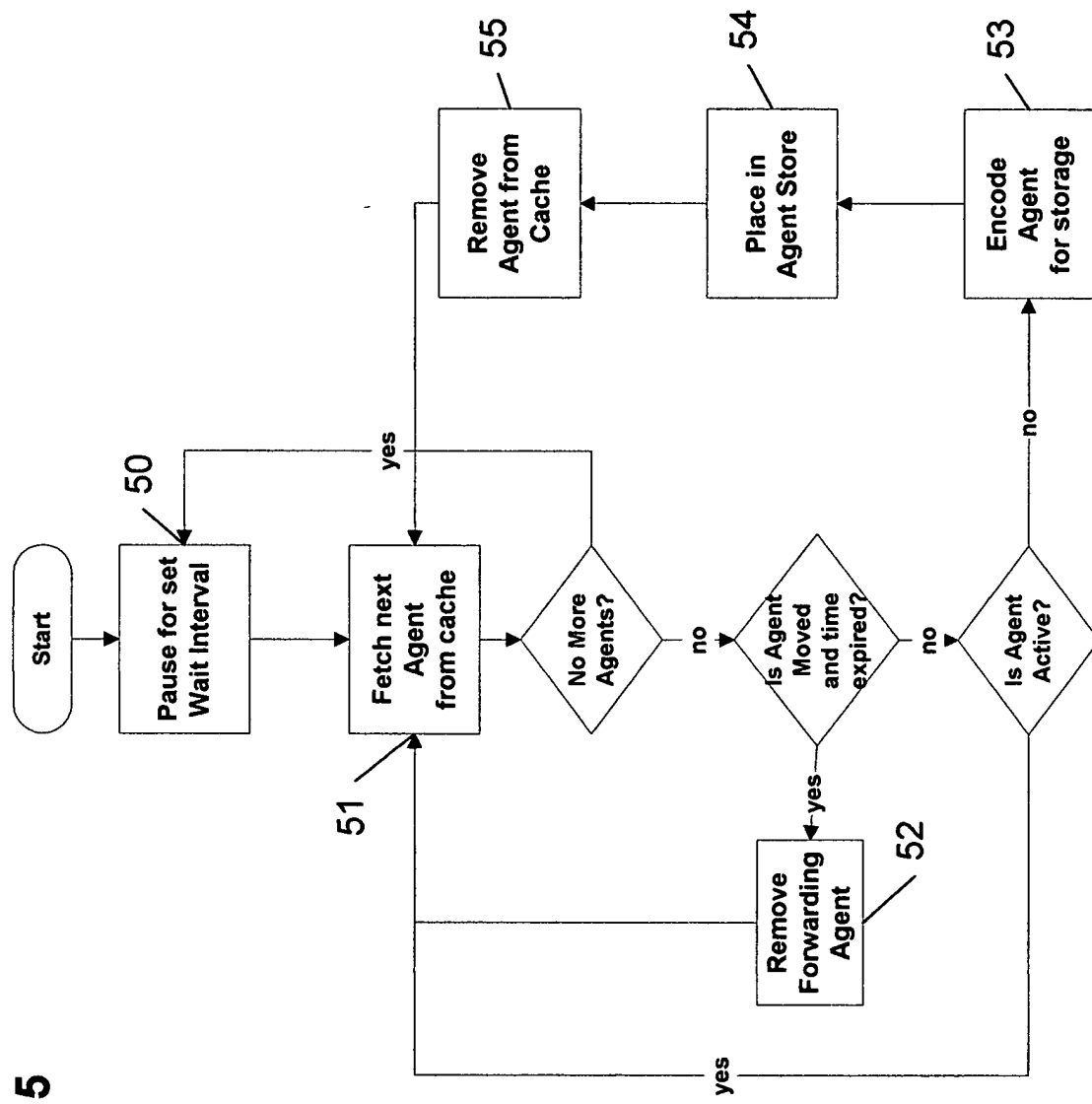


FIG. 6

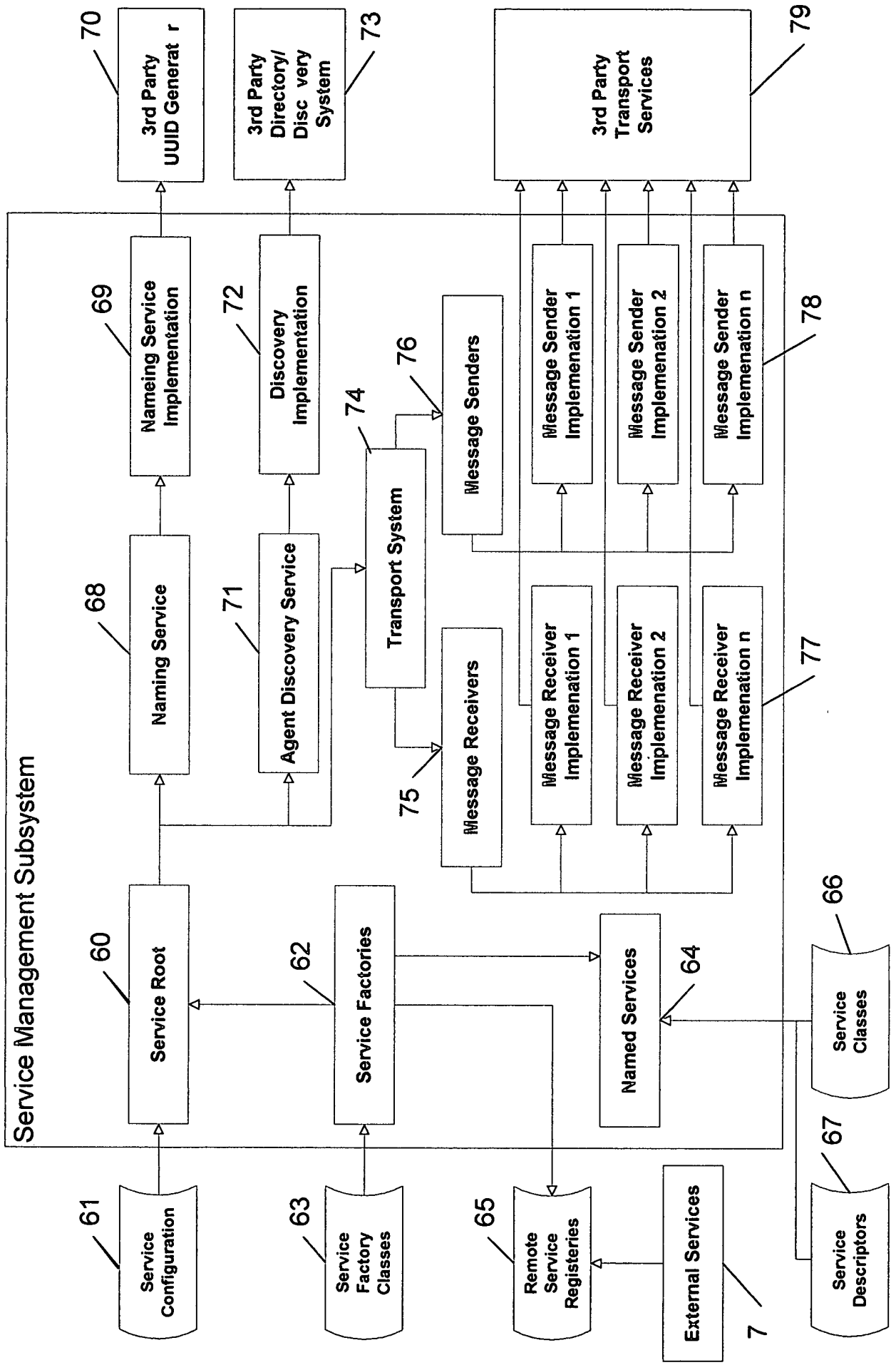


FIG. 7

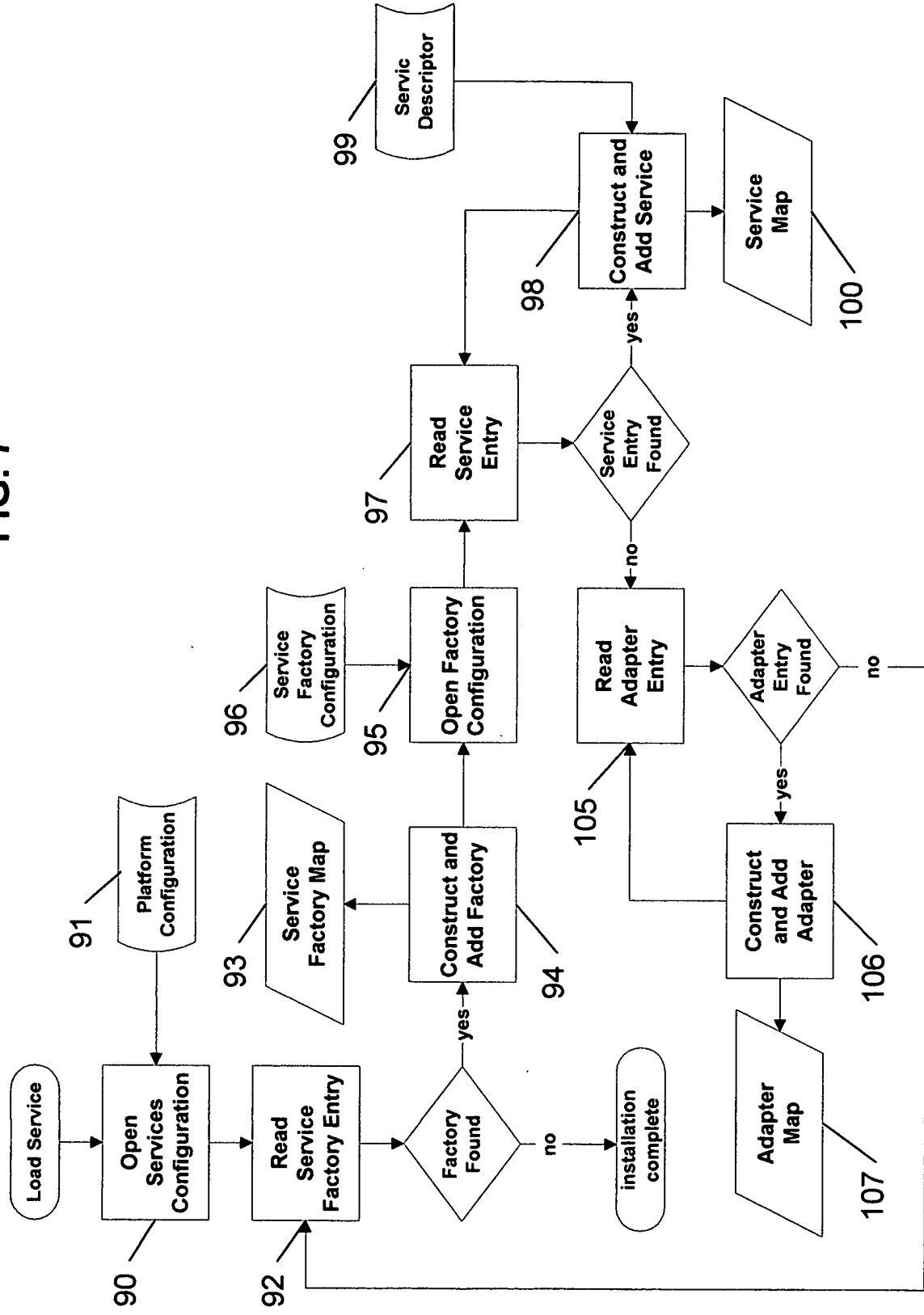


FIG. 8

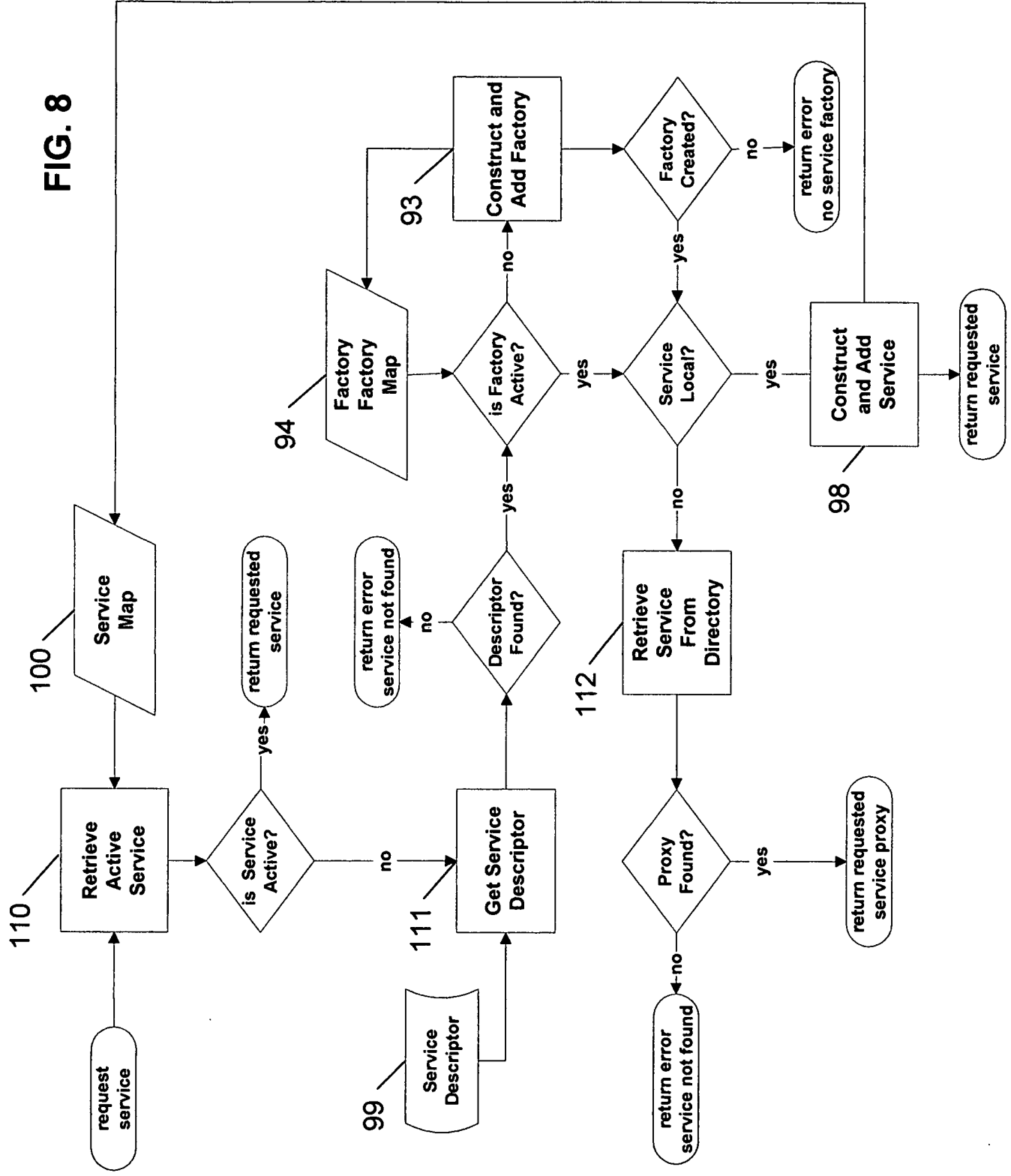


FIG. 9

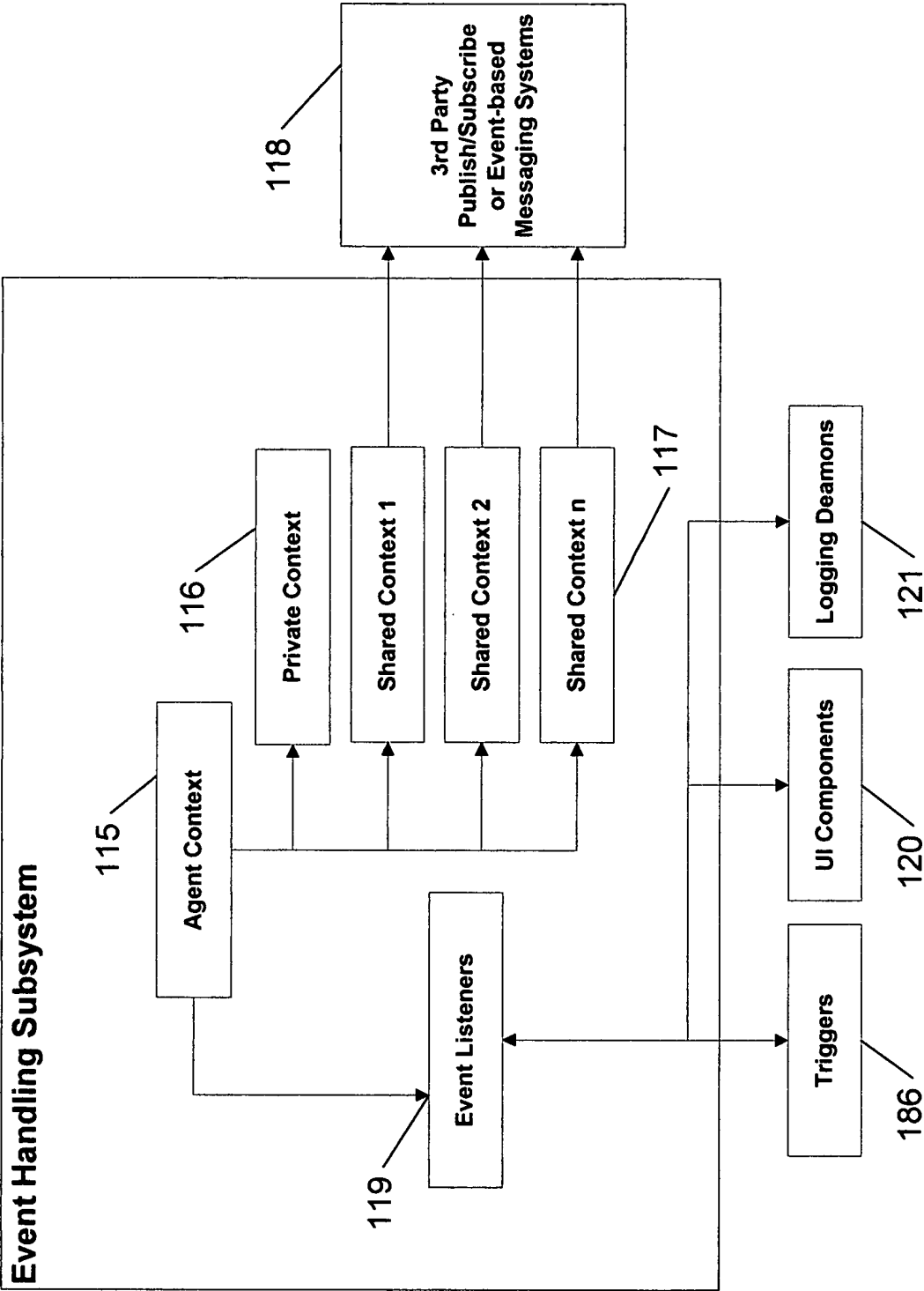


FIG. 10

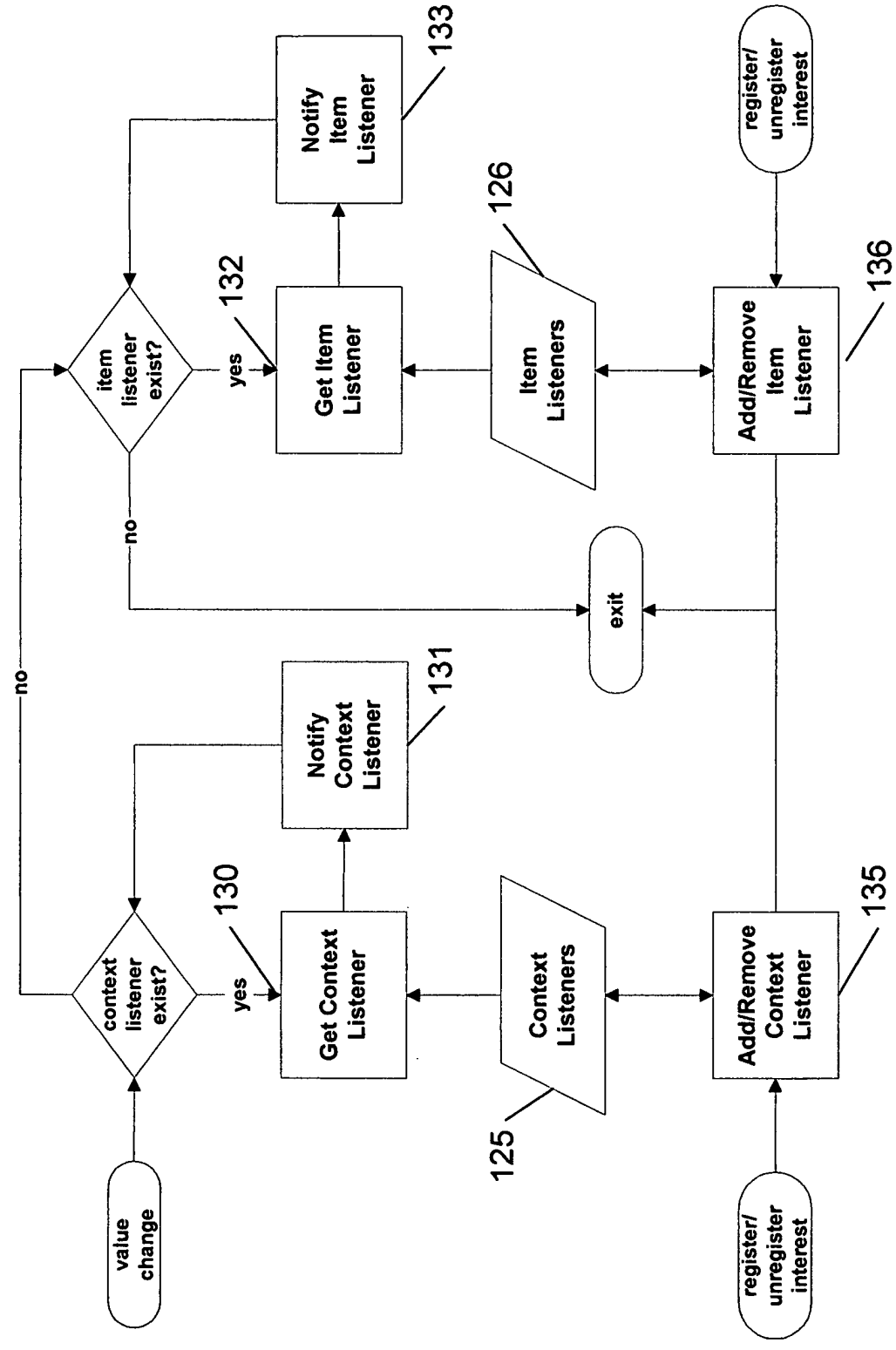


FIG. 11

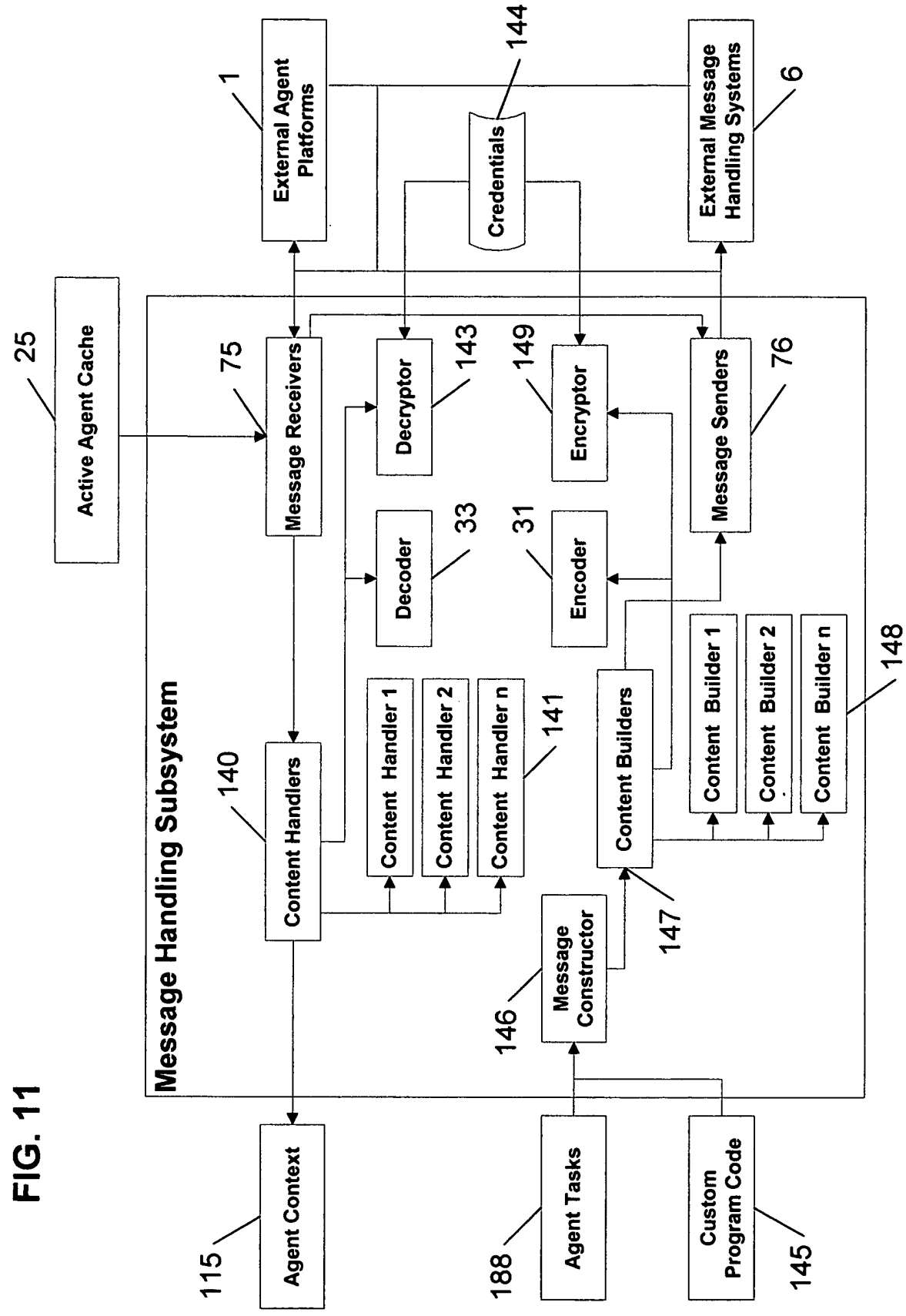


FIG. 12

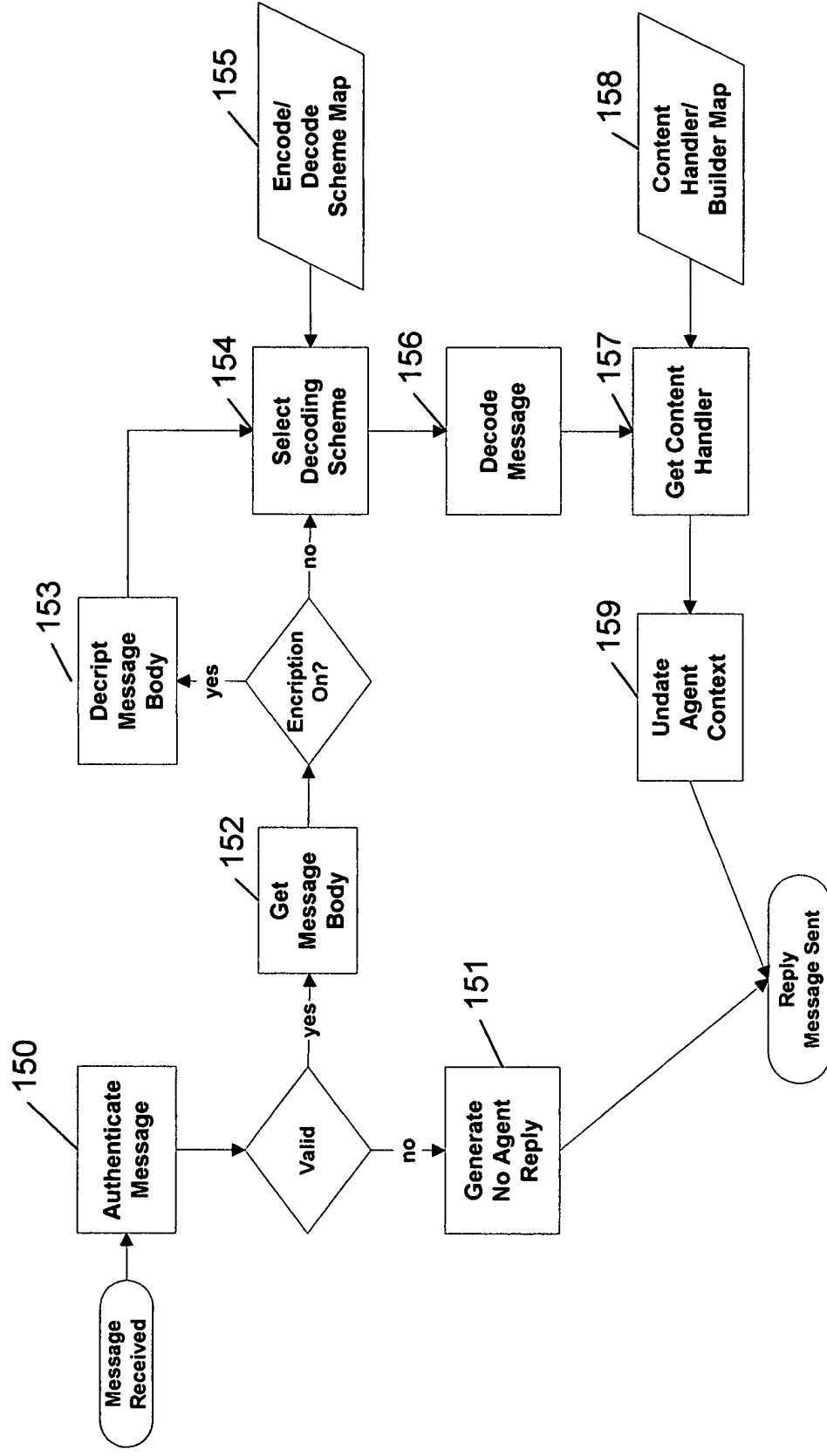


FIG. 13

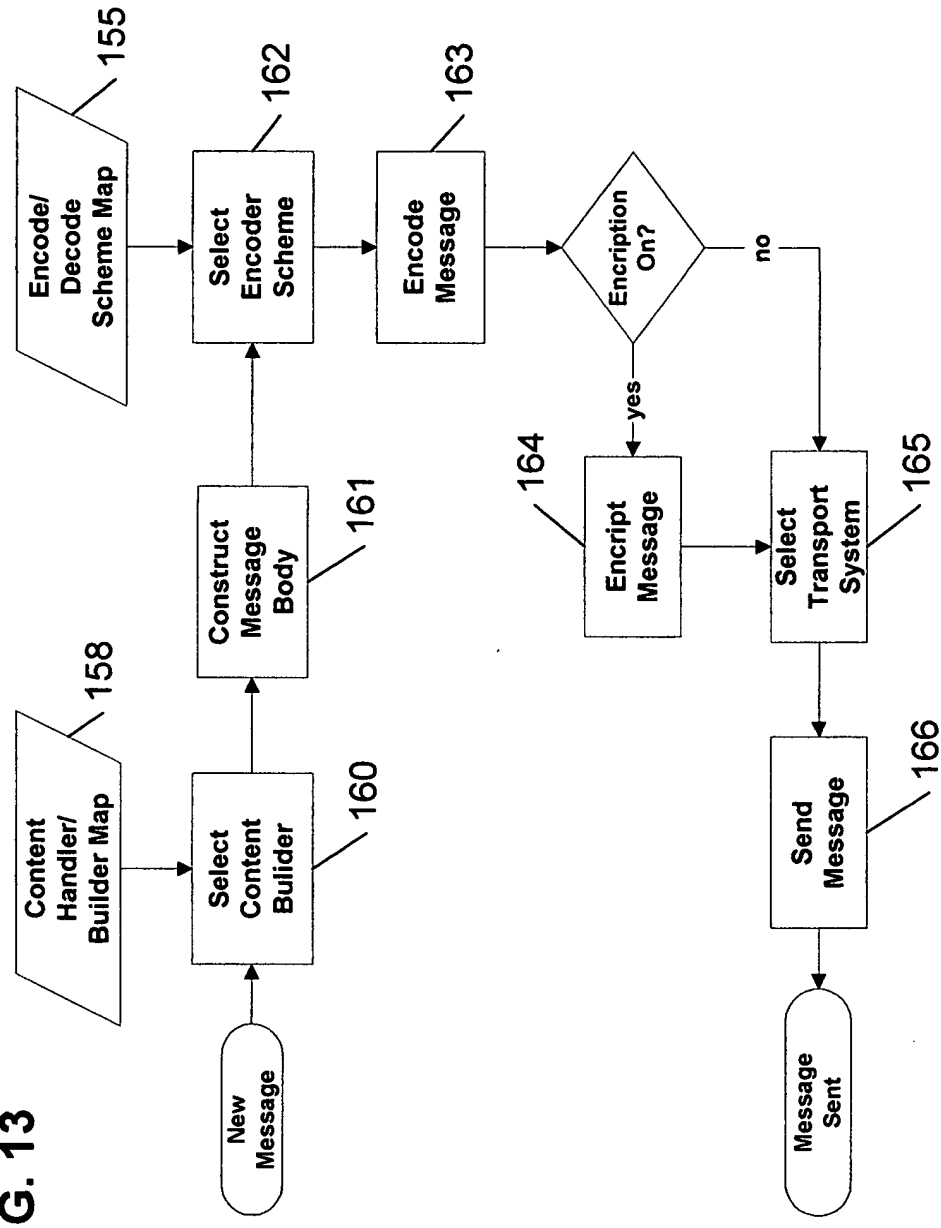


FIG. 14

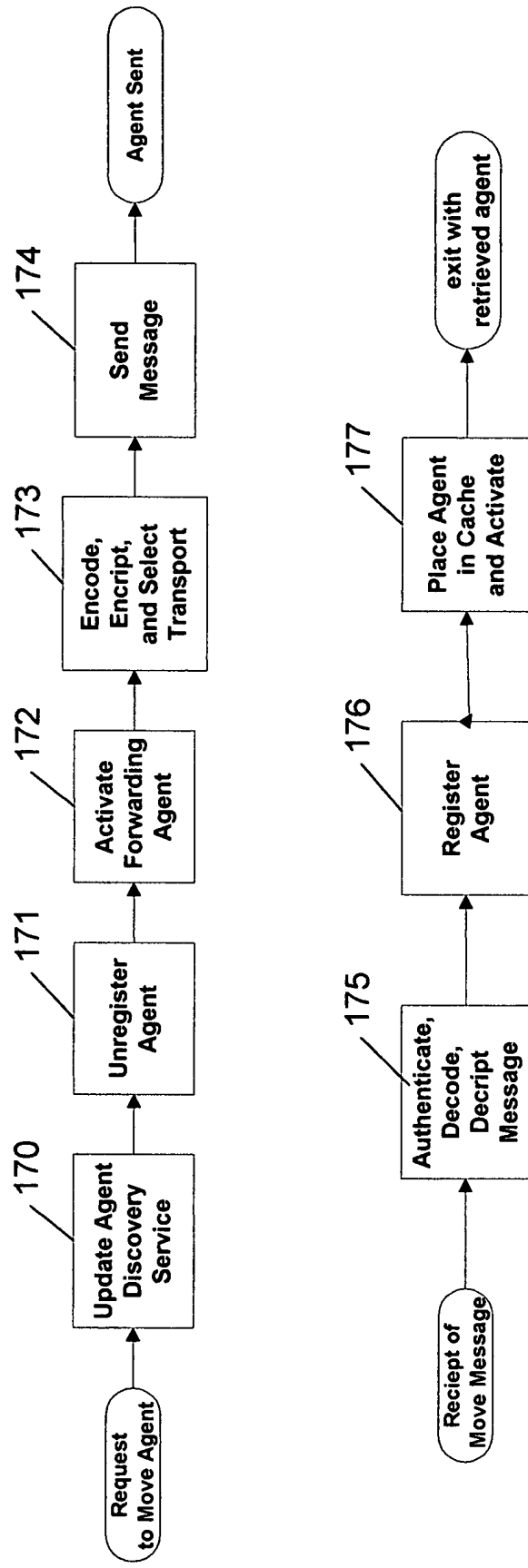


FIG. 15

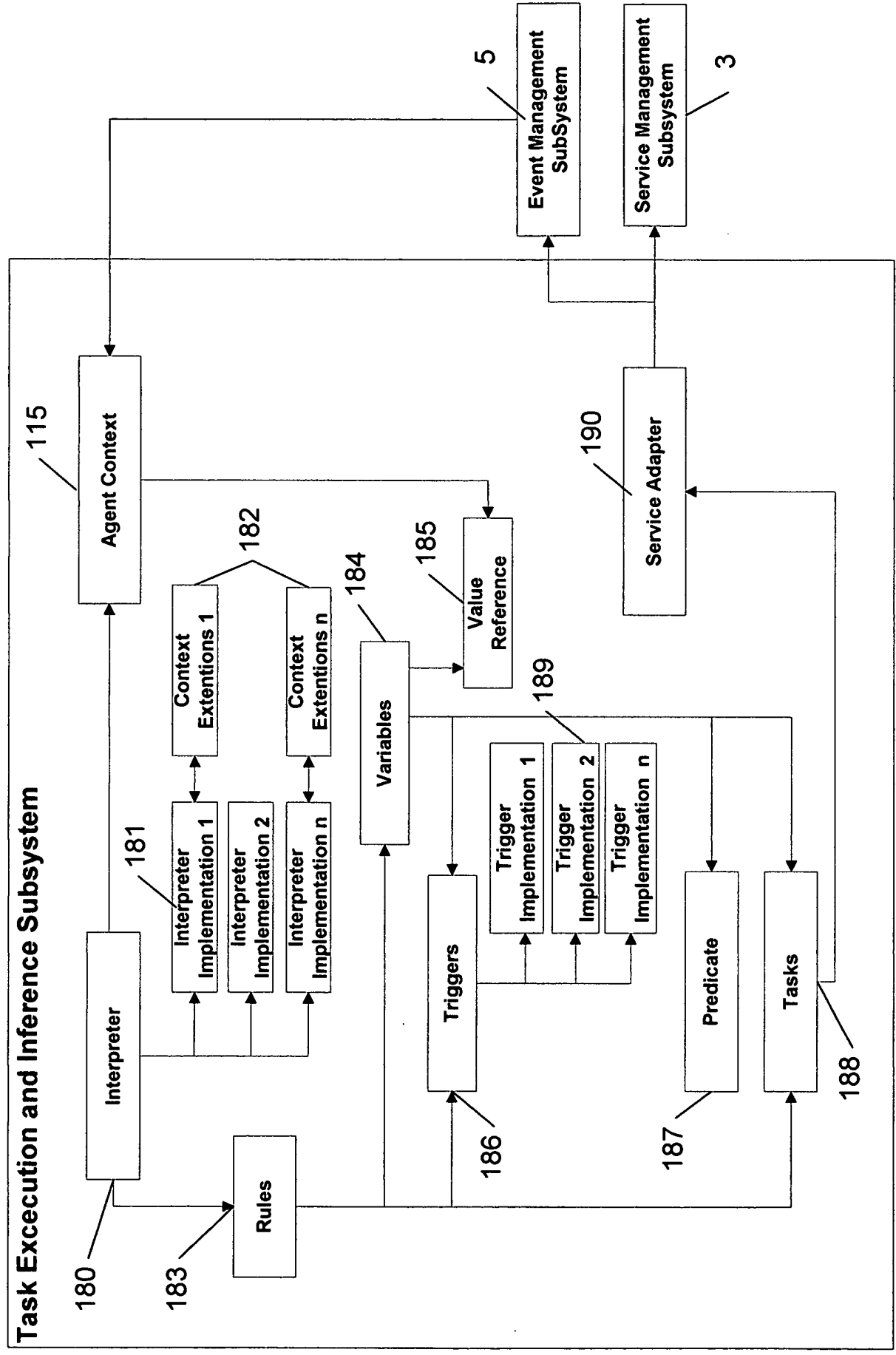


FIG. 16

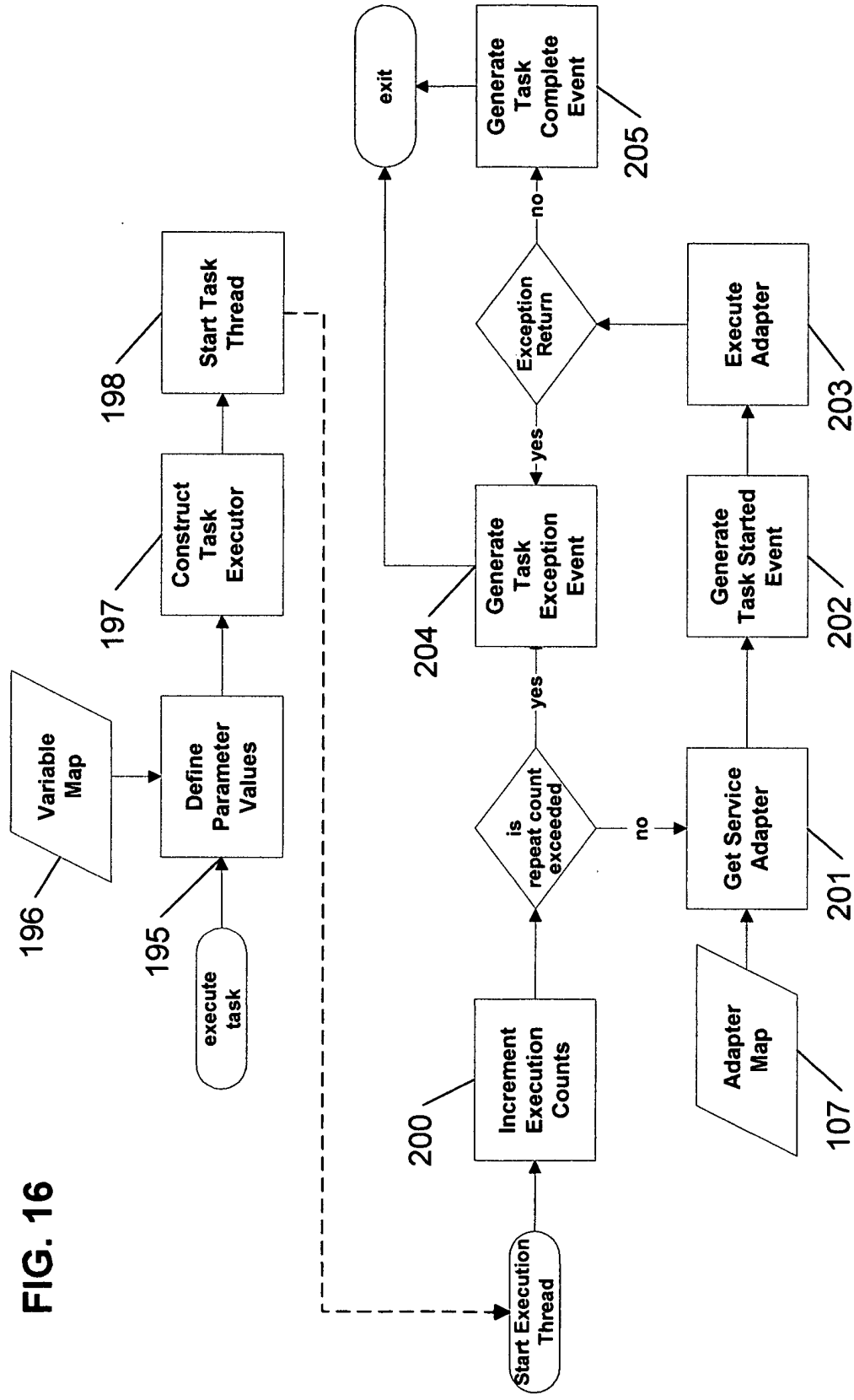


FIG. 17

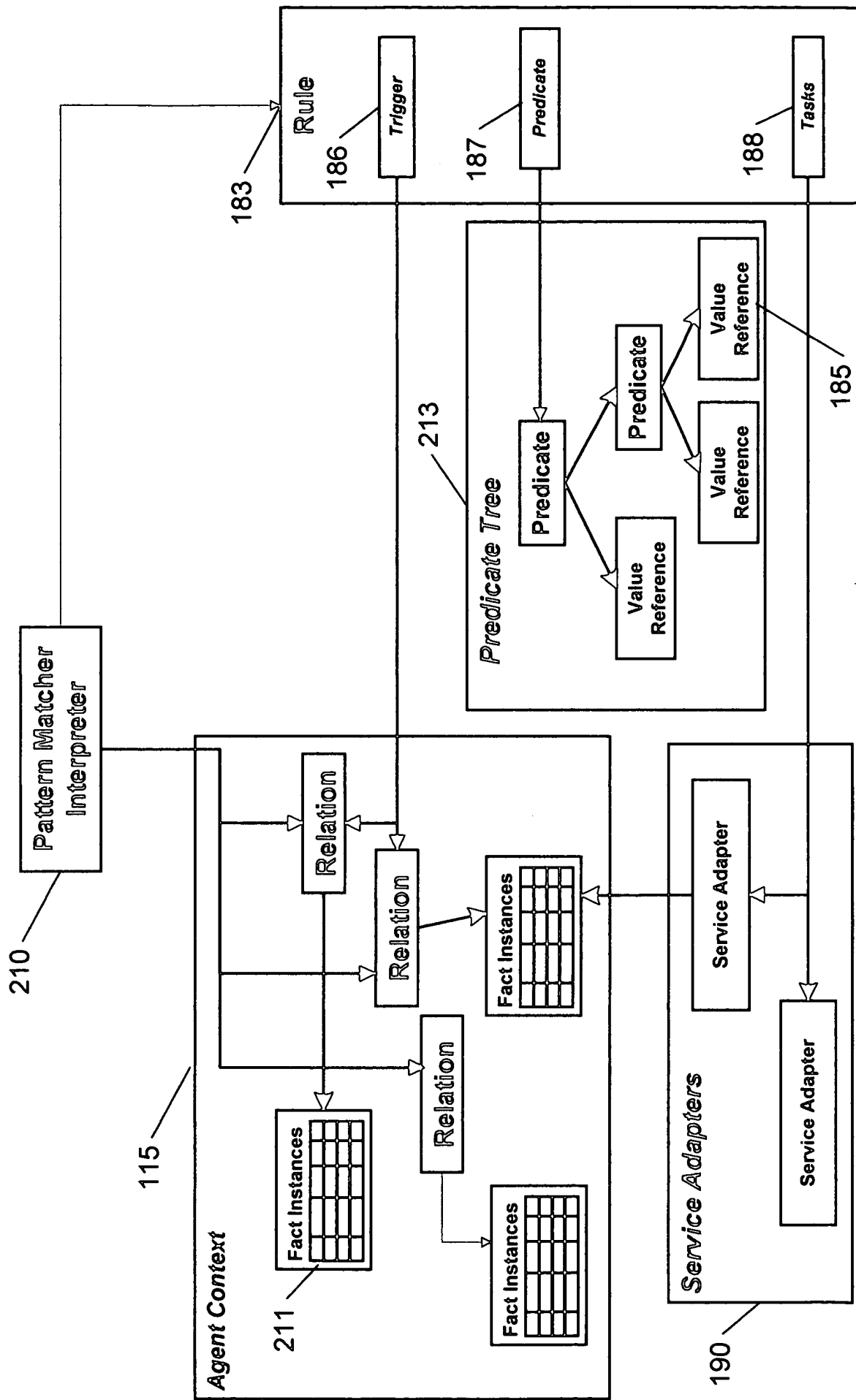


FIG. 18

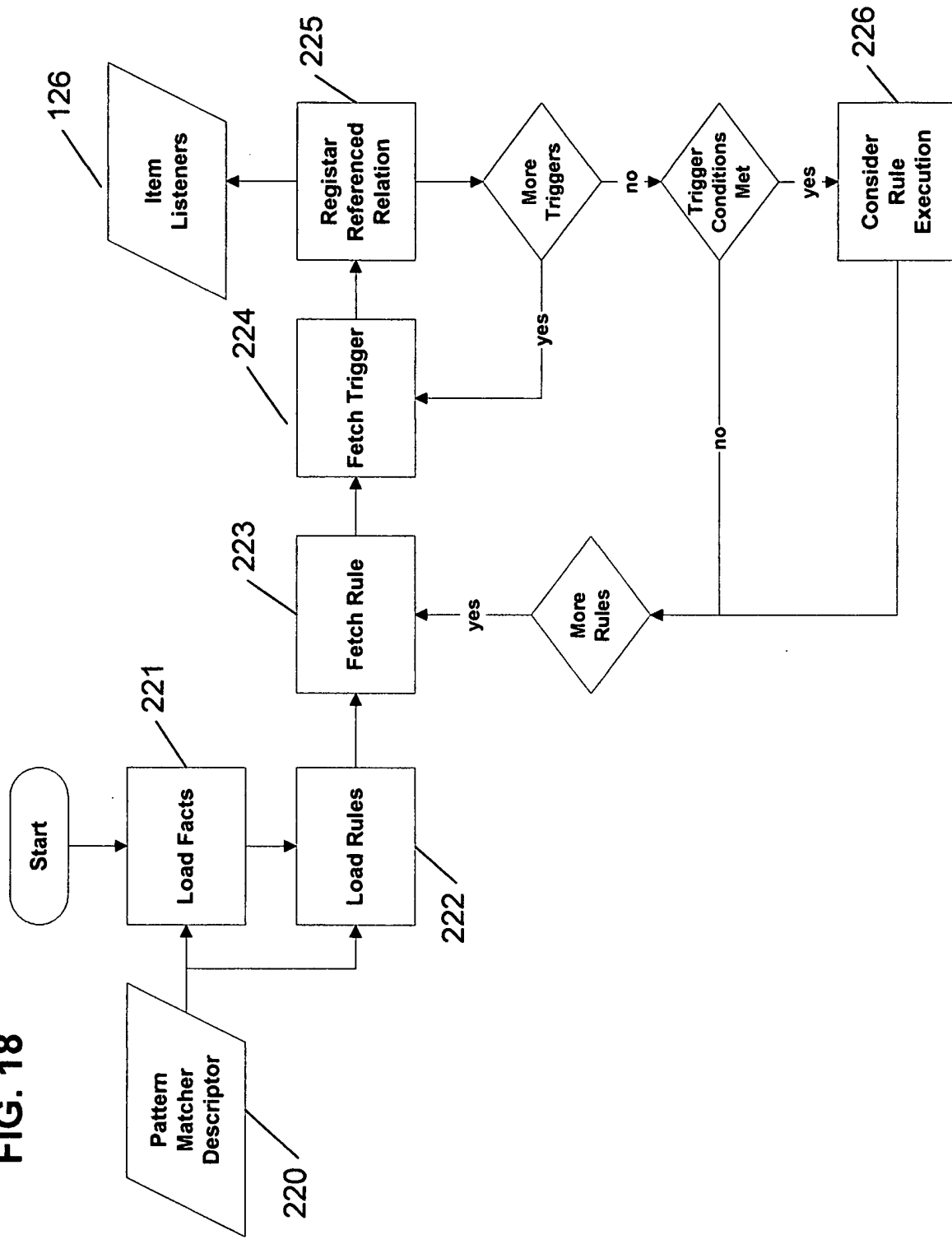


FIG. 19

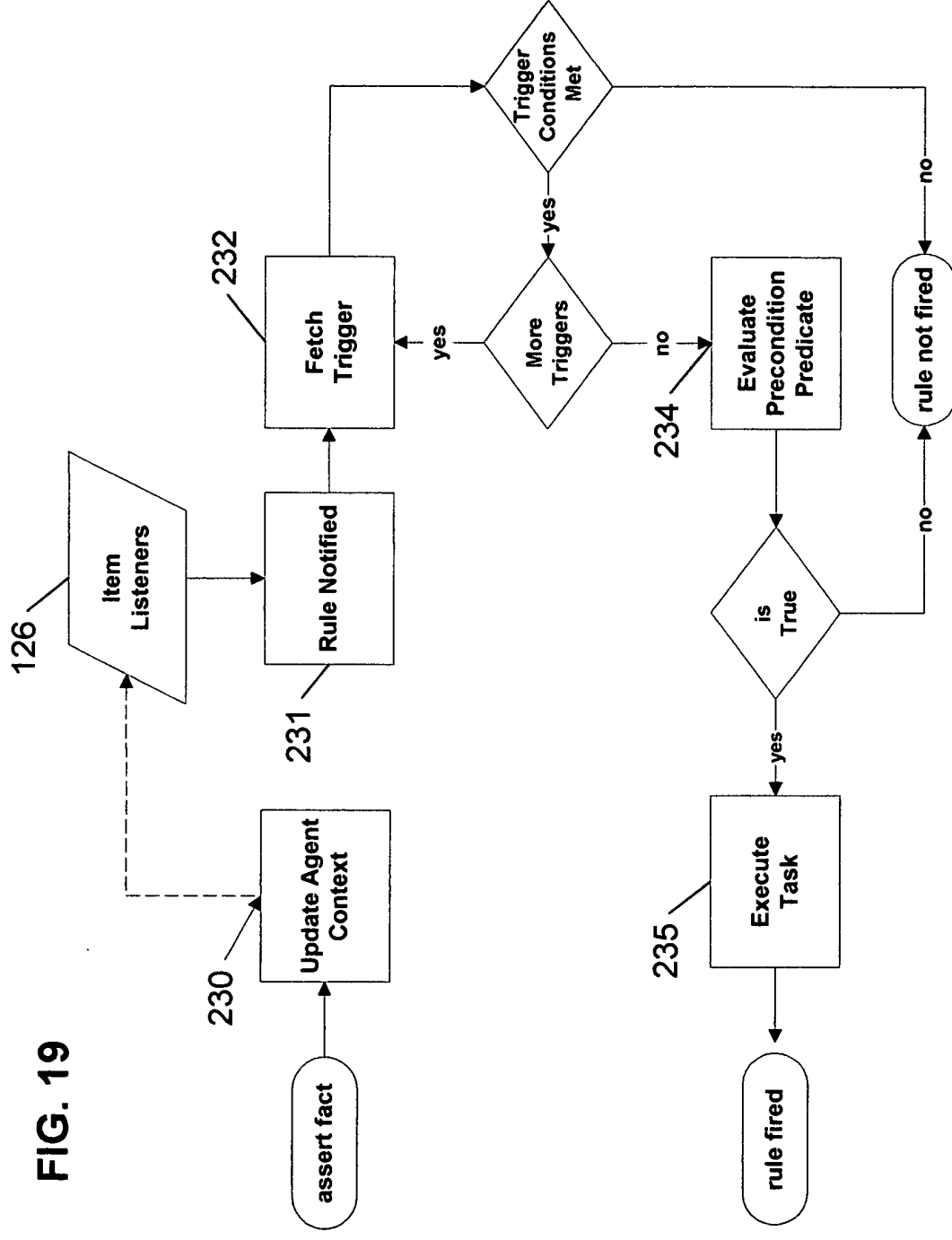


FIG. 20

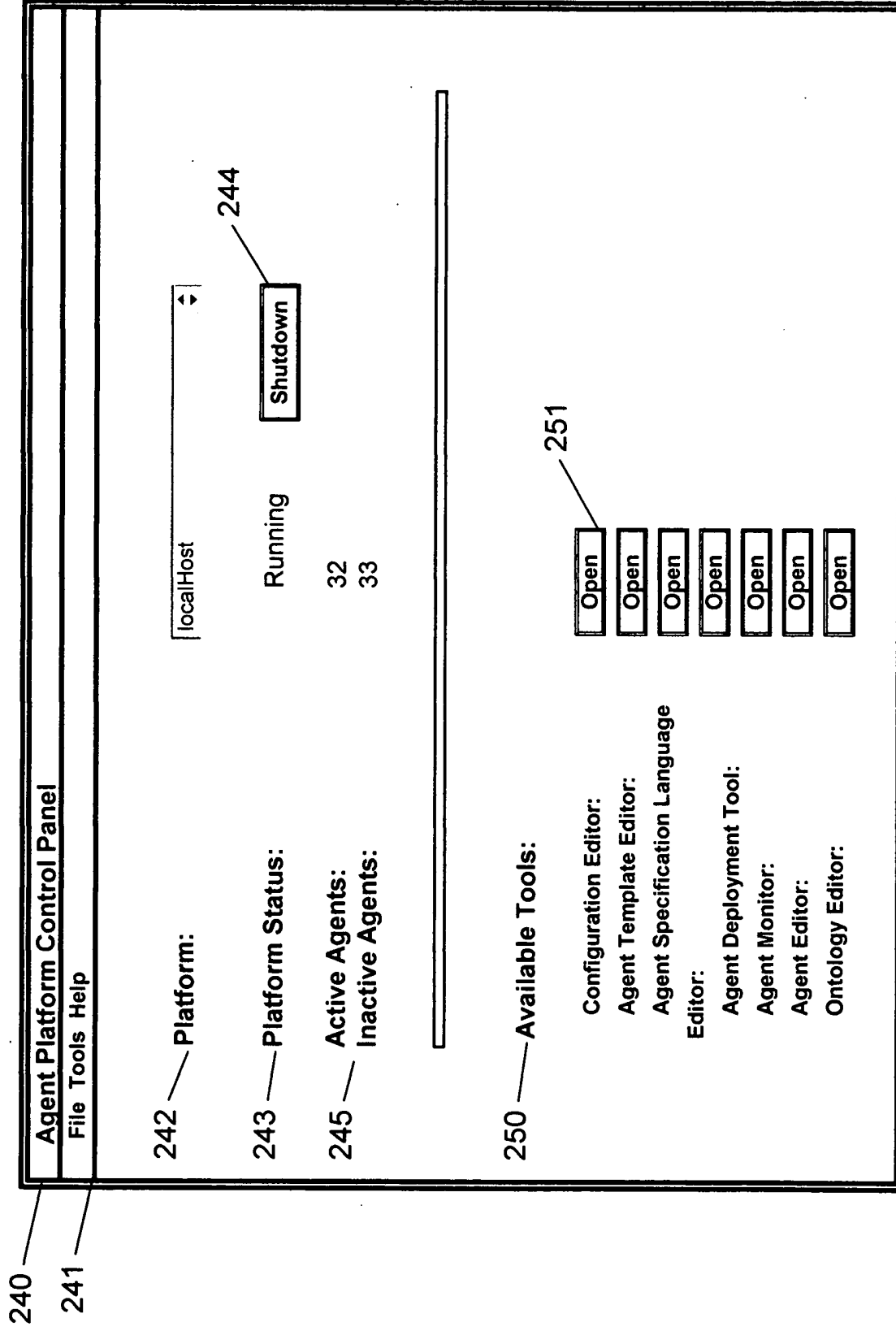


FIG. 21

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Configuration Editor

File Edit Configuration Tools Help

Configuration Tables:

Platform

PlatformServices

MaintApps

PartsToolsInventoryService

CheckpointReaderService

TCPMessageTransport

SNMPMessageTransport

SimpleTextEncoder-Decoder

XMLEncoder-Decoder

TextMessageHandle

AssertRetractFactMsgHandler

SSLEncryption

Create New

Remove

Attribute	Value
service.serviceConfigPath	/service
service.factories	PlatformSrvs, MaintApps, TCPSrvs
service.directory-service-factory	PlatformServices
service.naming-service-factory	PlatformServices
service.transport-system-factory	TCPServices
service.factory.class.PlatformSrvs	platform.PlatformServiceFactory
service.factory.class.MaintApps	power.MaintAppsFactory
service.factory.class.TCPSrvs	message.impl.TCPServiceFactory
message.messageConfigPath	/message
message.defaultTransport	tcp
message.encoders	default, xml
message.default.encoder	default
message.handlers	text, assert_revert, kqml
message.default.handler	assert_revert
message.encrypters	ssl
message.default.encrypter	none
inference.interpreterConfigPath	/interpreters
inference.interpreters	patternMatcher
inference.defaultInterpreter	patternMatcher
ontology.ontologyPath	/ontology
ontology.ontologies	PowerPlant
ontology.default	PowerPlant

Name: service.factories

Value: PlatformSrvs, MaintApps, TCPSrvs

Description: List of all service factory names supported by this platform

Add

Remove

Agent Template Editor

File Edit Templates Help

Agent Templates:

- Facility Supervisor
- Logistics Planner
- Maintenance Engineer
- Maintenance Truck
- Part
- Tool
- Maintenance Schedule
- Facility Checklist**
- Generator
- Transformer
- Relay
- Switch
- Breaker
- Power Line
- Distribution Substation
- Alarm Monitor

Create New
Remove

Agent Template Editor

General Attributes Rules

Template Name: Facility Checklist

Description:
This agent monitor information concerning personnel and equipment that may enter or exit part of a facility

Interpreter: PatternMatcher

Transport: TCP

Encoder: Simple

Semantics: Assert-Retract

Ontology: Power Plant

Use Encryption: ☒ Type: SSL

Agent Template Editor

File Edit Templates Help

Agent Templates:

△				▽
Facility Supervisor	Maintenance Engineer Maintenance Truck Part Tool Maintenance Schedule	Facility Checkpoint	Generator Transformer Relay Switch Breaker Power Line Distribution Substation Alarm Monitor	
Logistics Planner				

Create New

Remove

282

283

Get

Attributes

Rules

Template Name: Facility Checkpoint

Description:

This agent monitor information concerning personnel and equipment that may enter or exit part of a facility

Interpreter:

PatternMatcher

Transport:

TCP

Encoder:

Simple

Semantics:

Assert-Retract

Ontology:

Power Plant

Use Encryption:

☒

Type:

755

298

FIG. 23

Agent Template Editor

File Edit Templates Help

Agent Templates:

Facility Supervisor	△
Logistics Planner	
Maintenance Engineer	
Maintenance Truck	
Part	
Tool	
Maintenance Schedule	▽
Facility Checklistpoint	
Generator	
Transformer	
Relay	
Switch	
Breaker	
Power Line	
Distribution Substation	
Alarm Monitor	

Create New

Remove

301

General	Attributes	Rules
---------	------------	-------

302

Attribute Name:

Entry Area	△
Maintenance Engineer	
Credential	▽

303

New

304

Remove

Description:

305

Information About a Person that has just entered the checkpoint area

306

Type: Fact ▼

307

Value: (John, Maintenance Engineer, Generator Area A)

308

Assign/Edit Value

FIG. 24

Fact Entry Dialog

Ontology:

Power Plant

Personnel

Name

Position

Assignment

Equipment

Facilities

Processes

Name: Maintenance Engineer

This agent monitor information concerning personnel and equipment that may enter or exit part of a facility

Attribute	Type	Value
Name	String	John
Position	String	Maintenance Engineer
Assignment	String	Generator Area A

Cancel

Accept

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FIG. 25

Agent Template Editor

File Edit Templates Help

Agent Templates:

Facility Supervisor

Logistics Planner

Maintenance Engineer

Maintenance Truck

Part

Tool

Maintenance Schedule

Facility Checkpoint

Generator

Transformer

Relay

Switch

Breaker

Power Line

Distribution Substation

Alarm Monitor

Create New

Remove

General

Attributes

Rules

Rule Name:

Check Tools-Parts

Valid Destination

Credential Sensed

New

Remove

Description:

Checks to see if engineer is assigned to work in this generator area

Triggers:

Personnel

Work Order

New

Edit

Remove

Precondition:

Invalid Destination

Edit

Tasks:

SendAlarmMessage

New

Edit

Remove

FIG. 26

320

Edit Relation Dialog

Name:

Maintenance Engineer

321

Description:

This agent monitor information concerning personnel and equipment that may enter or exit part of a facility

322

Data:

Attribute	Type	Value
Name	String	John
Position	String	Maintenance Engineer
Assignment	String	?destination

323

324

Cancel

Accept

328

329

FIG. 27

Edit Condition Dialog

Predicates:

Invalid Destination

New Predicate

Remove

Operator:

not equals

Left Hand Side:

Generator Area A

☐ Constant ☒ Variable ☐ Predicate ☐ Expression

Right Hand Side:

Generator Area A

☒ Constant ☐ Variable ☐ Predicate ☐ Expression

Expression Editor

Cancel

Accept

FIG. 28

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Edit Task Dialog

351 *Task Name:* SendAlarmMessage

352 *Description:* Notify the alarm monitor of engineer arriving at the wrong location

353 *Provider:* Platform Services

354 *Adapter:* Send Message

345

Parameter	Type	Value
Subject	String	?name
Location	String	?destination
Type	String	Entry Violation
Message	String	Unauthorized Entry Attempted

356

358

359

Accept

Cancel

FIG. 29

360 Deploy New Agent Dialog

361 Name SuperCard Payer

362 Description Makes Periodic payment from by saving accounut the the my Super charge card company

363 Use Template Charge Card Payment Agent ▾

364 Activate ☒

365 Modify Values

366 Modify Rules

368 Create Agent

369 Cancel

FIG. 30

